"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"

FEDOROV, Al.A., doktor biol. nauk, prof., red.; ZOTOVA, A.P., red.; SHERMUSHENKO, T.A., tekhn. red.

[Useful and noxious plants of Leningrad Province] Poleznye i vrednye rasteniia Leningradskoi oblasti. Leningrad, Lenizdat, 1963. 172 p. (MIRA 17:3)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5

ANTONOVA, Tat'yana Sergeyevna; ZOTOVA, A.P., red.; LEVONEVSKATA, L.G., tekhn. red.

[High cabbage yields] Vysokie urozhai kapusty. Leningrad, Lenizdat, (MIRA 14:18)

(Cabbage)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002005510007-5

ARAPHROW, Release: Juvsday, September 26, 2002 CIA-RDP86-00513R002

ZOTOVA, "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5" CIA-RDP86-00513R002065510007-5"

Inst. Vaccines and Sera, Leningrad, (-1944-).

"Purification of tetanus and anatoxin by means of dialysis and electro-dialysis." Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 1-2, 1944.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

OLAZUNOV, P.D., starshiy ingh.: DANILKNKO, N.M., starshiy ingh.: ZHUKOV, V.K., starshiy ingh.; ZUYEV, A.I., obshchiy red.; ZOTOVA, A.P., red.; TIKHONOVA, I.M., cekhn.red.

[Efficiency-improving suggestions from agricultural machinery operators; practices of machinery operators on collective farms and state farms and at repair and improvement stations.] Ratsio-nalizatorskie predlosheniia mekhanizatorov sel'skogo khoziaistva; is opyta raboty mekhanizatorov kolkhozov, sovkhosov, remontno-tekhnicheskikh i meliorativnykh stantsii Leningradskoi oblasti. Leningrad, Lenizdat, 1959. 119 p. (MIRA 13:3)

1. Leningradskoye oblastnoye upravleniye sel'skogo khozyaystva (for Glasunov, Danilenko, Zhukov). 2. Glavnyy inzhener Leningradskogo oblastnogo upravleniya sel'skogo khozyaystva (for Euyev).

(Agricultural machinery)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

RADA, Boris Frantsevich; INDENBOM, Favel Borisovich; ANSIN, Andrey Nikolayevich; ZO10VA, A.P., red.

[Carrots and parsley] Morkov' i petrushka. Leningral, Lenizdat, 1965. 41 p. (MIRA 18:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5" CIA-RDP86-00513R002065510007-5"

GAVRILOV, I.S.; ZOTOVA, A.P., red.

[Home processing of vegetables, fruits, and berries]
Pererabotka ovoshchei, plodov i ingod v domashnikh usloviiakh. Leningrad, Lenizdat, 1965. 158 p.

(MIRA 18:12

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"

YAKOVLEVA, G.A., inzh.; ZOTOVA, A.S., inzh.

Selecting an efficient type of cement concrete plant. Avt.dor. 25 no.1:15-16 Ja '62. (MIRA 15:2)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

MEYERSON, A.B., kand. ekonom. nauk; ZOTOVA. A.S., inzh.; KARINH, Yu.S., inzh.

Longterm organization of a motortruck unit. Avt. dor. 28 nc.9: 23-24 S '65. (NIRA 18:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

SFERANSKIY, N.I.; GLAGOLEVA, N.A.; ZOTOVA, A.T.; IEONUVA, V.M.; ROZENBLIT, Ye.I.; STUDNITSYNA, L.A.

Result of using aeroion therapy in hypertension and stenocardia. Vop.kur., fizioter. i lech. fiz. kulit. 28 no.2:130-135 Mr-Ap'63.

(MIRA 16:9)

l. Iz terapevticheskogo otdeleniya (zav. - prof. N.I. Speranskiy)
kliniki TSentral'nogo instituta kurortologii i fizioterapii
(dir. - kand. med.nauk G.N.Pospelova)
(HYPERTENSION) (AIR, IONIZED—THERAPEUTIC USE)
(ANGINA PECTORIS)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

SPERANSKIY, N. I.; GLAGOLEVA, N. A.; ZOTOVA, A. T.; LEONOVA, V. M.; ROZENBLIT, Ye. I.; STUDNITSYNA, L. A. (Mockva)

Treatment of stenocardia with novocaine electrophoresis in Zakharin-Head' zones. Klin. med. no.9:103-106 '61. (MIRA 15:6)

1. Iz terapevticheskoy kliniki (zav. - prof. N. I. Speranskiy) TSentral'nogo instituta kurortologii i fizioterapii (dir. G. N. Pospelova)

(ANGINA PECTORIS) (NOVOCAINE)

MINKINA, V.A.; ZOTOVA, A.V.; KRASINODYMSKAYA, G.N.

Experience in therapeutic and prophylactic work in the school. Pediatriia no.8:8-11 '62. (MIRA 15:10)

1. Iz otdela organizatsii detskogo zdravookhraneniya (zav. - prof. A.G.TSeytlin) Gosudarstvonnogo nauchno-issledovateliskogo pediatricheskogo instituta (dir. - kandidat meditsinskikh nauk V.P.Spirina).

(SCHOOL HYGIENE)

U

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51485.

Author : Zotova, E. E., Nikitina, V. A., Sluchevskiy, I. F.

Inst : Not given.

Title : On the Problem of Immunity in Psychic Disorders.

Orig Pub: Sb. Psikhiatr. klinika i probl. patol, wyssh.

nervn. deyat-sti, Vyp. 2, L., 1957, 220-235.

Abstract: The immunological reaction to typhoid vaccination

was studied in 29 patients with schizophrenia, paraphrenia, cyclothymia etc. The original agglutinization (AT) titer in 21 patients was 1:50-1:200. The increase of AT as a result of vaccination was insignificant and reversible. (For inst.: AT prior to vaccination, 1:100, - after

the third and fourth - 1:400, 1:50).

Card 1/1

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"
DORTMAN, Nina Borisovna, "Mailatbuly, Valentina Ivanovna; VEYNBERG, A.K.; DUBINCHIK, E.Ya.; ZHDAROY, V.V.; ZOTOVA, I.F.; ILAVEV, M.G.; TRUNINA, V.Ya.; KEDREVA, B.Ya.; Ved. red.

[Physical properties of rocks and minerals in the U.S.S.R.]
Fizicheskie svoistva gornykh porod i poleznykh iskopaemykh
SSSR. Moskva, Nedra, 1964. 325 p. (MIRA 18:1)

l. Leningrad. Vsesoyuznyy geologicheskiy institut.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"
MOSKALEVA, S.V.; ZOTOVA, I.F.

Magnetic properties of ultrabasic rocks. Dokl. AM SSSR 162 no.1:70-73

My '65.

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.

Submitted August 6, 1964.

ŪΩ	เราะ	APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002	CIA-RDP86-0	00513R002065	5510007-5" ! . ·			1,	DEPTITION AND MILES
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L 1585-66 AU5015051 which special attention is given include the density, the magnetic susceptibility, Introduction - - 3 Introduction = -3

Part I. Physical properties of magnatic and metamorphic racks

Ch. I. Physical properties of rock-forming minerals = -9

Ch. II. Density of rocks = -33

Ch. III. Magnetic properties of rocks = -93

Ch. IV. Specific electrical resistance of rocks = -172

Ch. V. Rate of propagation of longitudinal elastic waves in rocks = -193

Ch. VI. Change in physical properties of rocks. depending on mentally news Ch. VI. Change in physical preperties of rocks, depending on manifold pressure Card 2/3

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Part II. Physical preperties of metallic and memorallic mineral resources

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Ch. VIII. Physical preperties of nemmetallic mineral resources -- 299

Literature -- 313

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5" CIA-RDP86-00513R002065510007-5"

GOFMAN, I.L.; ZOTOVA, K.S.; ALEKSASHINA, L.M.; Prinimali uchastiye: VINNIK, M.M.; LYSENKO, M.G.; BAKARINOVA, N.M.; NIKITINA, N.A.

Preparation of a tetrasodium pyrophosphate decahydrate food product based on phosphoric acid obtained by the extraction method. Khim.-prom. no.9:630-632 S '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut po udobreniyam i insektofungisidam imeni Samoylova i Opytnyy zavod Nauchno-issledovatel'skogo instituta po udobreniyam i insektofungisidam imeni Samoylova. (Phosphoric acid) (Sodium pyrophosphate) 5 (4) AUTHORS:

Trapeznikov, A. A., Zotova, K. V.

507/20-128-2-32/59

TTTLE:

The Formation of Thixotropic Structure in an OT Aerosol. sucrose Solution and in Bilateral Films Formed by It, and the Effect of This Structure on the Stability of Foams

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 2, pp 337-340 (USER)

ABSTRACT:

The viscosity and elasticity of bilateral films (shortly called film in the following) was investigated by means of the method of horizontal concentric rings as described in reference 2. The aerosel OT used (dioctylester of sulfosuscinic acid) forms stable films. To study the effect of the sucrose, which is used to raise the stability of feams, OT-solutions (0.045 mol/1) were treated with 1.4 mol/1 of sucrose. The results show (Table 1) that the property of the film greatly depends on an aging process. In newly prepared solutions no effect of sucrose on the viscosity is noticed, whereas viscosity increases by 300 times in about 100 days. If the measurement of the film property of an aged solution is repeated several times, the viscosity of the film decreases to the original amount of the fresh solution (Table 2). This was also confirmed by direct measurement of the solution viscosity (Table 3). After some

Card 1/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002005510007-5" CIA-RDP86-00513R002005510007-5"

The Formation of Thiretropic Structure in an OT SOY/20-128-2-32/59 Aerosol-sucrose Solution and in Bilateral Films Formed by It, and the Effect This Structure on the Stability of Foams

rest of the film viscosity increases again (Table 4). A similar fact was observed when investigating four stability, Whereas from produced by careful stirring proved a stability depending on the age of the solution, the foun of a violently stirred solution collapses as fast as the foun of a newly prepared solution (Fig 1). Therefore a thirotropic structure of the solution mixed with sucress is assumed, which is egain destroyed by mechanical action. The stabilization of the foun and the film of an aged solution is reached by retarding aged solutions are colorless and about 1,4 thick, while films of with disturbed structure become thin quickly and show interescence colors. There are i figure, 4 tables, and 4 references,

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Anademy of Schenges, USSR)

Card 2/3

*APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5

**28F0FFF FOR RELEASE: Thursday, September 28, 2002 CIA-RDP86-00513R002065510007-5

TRAPEZNIKOV, A.A.

**TWO_fided* films formed from solutions of earcacl MA with gelatine additions. Koll. zhur. 27 no.24197-202 MatAp *65.

1. Institut fizicheskoy Mimii AN SSSR, Moskyr.

(MIRA 18:6)

AUTHORS:

Zotova, K. V., and Trapeznikov, A. A.

20-117-5-30/54

TITLE:

Shear Strength of Two-sided Films and Surface Layers in Saponin Some lutions (Sdvigovaya prochnost dvustoronnikh planok i poverkhnost nykh sloyev v rastvorakh saponina).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 5, pp. 833-836 (USSR).

ABSTRACT:

The simultaneous investigation of the mechanical properties of mass chanical films and of surface layers at differing concentrations response to the surface layers at differing concentrations response to the surface layers and of the properties and of the composition of two-sided films. The present paper employs the method of shear strength of surface layers and of two-sided films. Two concens their crings consisting of platinum wire with a diameter of 0,1 cm and tric rings consisting of platinum wire with a diameter of 0,1 cm and the radii R₁ = 2,738 cm and R₂ = 2,995 cm were mounted in a homeonth the radii R₁ = 2,738 cm and R₂ = 2,995 cm were mounted in a homeonth the radii R₁ = 2,738 cm and R₂ = 2,995 cm were mounted in a homeonth the radii R₁ = 2,738 cm and R₂ = 2,995 cm were mounted in a homeonth the radii R₁ = 2,738 cm and R₂ = 2,995 cm were mounted in a homeonth the surface layers and of the composition of the composition of two-sided films.

rizontal position. The further set up of the experimental arrangement, is described. The authors investigated various saponines, which obvisiously display widely differing abilities for the formation of films ously display midely different mechanical properties. Here, imported and and of foam and different mechanical properties. Here, imported and Sovietic saponines were examined. The present paper investigates the data of one of the imported saponines, that is to say Kahlbaum (Kaltadata of one of the imported saponines, that is to say kahlbaum (south baum), which formed films of a comparative stability and with good

Card 1/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

Shear Strength of Two-sided Films and Surface Layers in Saponin

mechanical properties between the rings. A diagram illustrates the curves of the dependence of the deformation E on the shear strength for the two-mided films, which were produced from solutions with varying concentrations. If P reaches a certain value $P = P_r$, them Σ increases particularly quickly. This speaks in favour of a flowing, which is connected with a destruction of structure. A further diagram illustrates the curves of the dependence of Z on P of surface layers in identical saponine solutions. In general, they resemble the curves of the films, they show, however, a less marked transition to the vertical domain, which characterises the destruction of structure and the flowing process. The quantity P_{r} of the surface layers increases continuously with an increasing concentration, the quantity $P_{\mathbf{r}}$ of the films produced from the same solutions passes through a sharp maximum in the range of comparatively low concentrations of the solution. The strength of the adsorption layer of the film reaches only half the amount of the strength of the surface. Without doubt, even saponines carefully purified contain components with a differing surface activity, even the more the cheaper varieties, which are differing by their molecular structure. The results found here permit the expla-

Card 2/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"
CIA-RDP86-00513R002065510007-5"

Shear Strength of Two-sided Films and Surface Layers in Saponin 20-117-5-30/54 Solutions.

nation of numerous peculiarities of the stability of feams. There are 4 figures, and 6 Slavic references.

ASSOCIATION: Institute for Physical Chemistry AS USSR (Institut fizicheskoy khi=

PRESENTED: June 11, 1957, by P. A. Rebinder, Academician.

SUBMITTED: June 1, 1957.

Card 3/3

TAPPROVED FOR RELEASE: Thursday, September 26, 2002

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510007-5

ZOTOVA, K.V.; TRAPEZNIKOV, A.A.

Structural and mechanical properties of surface layers in solutions of saponins and of two-sided films formed by them.

Koll.zhur. 26 no.2:190-197 Mr-Ap 164. (MIRA 17:4)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065510007-5
CIA-RDP86-00513R002065510007-5"

ZOTOVA, K.V.; TRAPEZNIKOV, A.A.

Stability of films and foams and mechanical properties of films from solutions of saponins, alkaryl sulfonates, and esters of sulfosuccinic acid. Koll. zhur. 26 no.3:312-317 (MIRA 17:9)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

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CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVA, K.V.; TRAPEZNIKOV, A.A.

Shear strength of two-sided films and surface layers in saponin solutions. Dokl. AN SSSR 117 no.5:833-836 D '57. (MIRA 11:3)

1. Institut fizicheskoy khimii Akademii nauk SSSR. Predstavleno akademikom P.A.Rebinderom.
(Saponins) (Film coefficients (Physics))

tuchanical properties of the adsorption layers of saponia at the interfaces of squeeus solution - toluene and aqueous solution - toluene rubber solution. Foll, thur, 27 no.4: 674-618 Shap 165. (MIRA 18:12)

%. Institut filaicheskoy khimis fü $805\mathrm{R}_{\odot}$ Moskva, Submitted July 9, 3965.

"APPROVED FOR RELEASE: Thursday, September 26, 2002

APPROVED FOR RELEASE: Thursday, September 26, 2002

ZOTOVA, L., aspirantka.

Cost of aeronautical chemical work. Grashd.av. 14 no.1:34 Ja *57.

(MERA 10:4)

1. Hoskovskiy inshenerno-ekonomicheskiy institut imeni Sergo Ordshoni-kidze.

(Aeronautics in agriculture) (Spraying and dusting)

SHALIMOV, Fedor Andreyevich; ZOTOVA, L.A., red.

[Winged assistants of agriculture] Krylatys pomoshchniki zemledel'tsa. Moskva, Znanie, 1964. 24 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.23) (MIRA 17:11)

"Approved For Release: Thursday, September 26, 2002 CIA-RDP86-00513R002085510007-5"
TARNOVICH, Nikoley Konstantinovich; ZOTOVA, L.A., red.

[Mechanization of the chemical protection of plants]
Mekhanizateila khimicheskoi zashchity rastenil. Mosakva, Znanie, 1964. 32 p. (Novoe v zhizni, nauke, tekhnike. V Seriias Sel'skoe khoziaistvo, no.22)

(MIRA 177111)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
KOROVKIN, Ivan Petrovich ZOTOVA. L.A., red.

[Suburban agricultural factories] Sel'skokhoziaistvennye fabriki prigoroda. Moskva. Znanie, 1964. 46 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.21) (MIRA 17:11)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5*

GAR, Konstantin Arkad'yevich; BOBMEVA, N.P., red.; ZOTOWA, h.A., red.

[Chemistry protects crops] Khimita zashenlahehaat unnzhain, noskva, Izd-vo "Zmanie," 1964. 27 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khozinistvo, no.12)

(MIRA 1747)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP8-00513R002065510007-5

GAYDEKSVICH, Leonid In okont yevich; Actova, L.A., red.

[Nutrition of legumes] Pitania bobovykh. Moskva, Ind.

vo "Znania," 1965. 31 p. (Novoe v zhizni, nauko, tekhnike. V Seriia; Sel'skoe khozizlstvo, no.1)

(MICA 18:1)

The state of the s

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

KOROLEV, Boris Aleksandrovich; ZOTOVA, L.A., red.

[Let us intensify our agriculture] Vesti khoziaistvo intensivno. Moskva, Izd-vo "Znanie," 1964. 32 p. (Novoe v shizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.11) (MIRA 17:7)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

BALYURA, Vladimir Ivanovich, kand. sel'khoz. nauk; ZOTOVA, L.A., red.

[Breeding of early ripening types] Selc' ita na skom respelost'. Moskva, Izd-vo "Znanie," 1964. 44 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.9) (MIRA 17:6) ACC NR. AT6008782

SOURCE CODE: UR/2557/55/000/011/0003/0019

AUTHOR: Nikolayevekiy, I. F., Perel'man, B. L., Skorik, K. I., Zotove, L. G.

ORG: none

TITLE: Low-temperature parameters of transistors

SOURCE: Poluprovodnikovyye pribory 1 likh primeneniye; abdraik statey, no. 14,
1965, 3-19

TOPIC TAG3: germanium, transistor, parameter

APSTRACT: Theoretical and experimental data regarding current amplification and input and output impedance of various types of the transistors in the low-temperature.

input and output impedence of various types of the transistoms in the low-temperature ranges are considered. An experimental liquid nitrogen refrigeration chamber is described; this chamber keeps the temperature of the medium within the low temperature range, down to -160C, with deviations not exceeding + 2C. The aim of the study was to fill the existing gap in the theoretical and experimental data on the low-frequency operation of germanium transistors in the low-temperature range down to -160C. Graphs and data presented in the original article on temperature dependences of transistor electric parameters are based on measurement results from 10--60 transistors of each type tested. Orig. art. has: 16 figures, 1 table, and 25 formulas. [RP]

SUB CODE: 09/

SUBM DATE: none/

ORIG REF: 003/

OM NE OOS

Card 1/1 FV

UDC: 621,382,342,029,45

ACC NR: AP7003850

SOURCE CODE: UR/0122/67/000/001/0068/0070

AUTHORS: Zotova, L. K. (Candidate of technical sciences, Docent); Shashkin, A. S. (Candidate of technical sciences); Gel'fond, A. S. (Engineer)

ORG: none

TITLE: New chip-breaking mechanisms for turning lathes

Vestnik mashinostroyeniya, no. 1, 1967, 68-70 SOURCE:

TOPIC TAGS: lathe, cutting tool, high speed metal cutting, alloy, steel/ T5K10 alloy, 1K62 lathe, 1Kh18N9T steel, 2Kh13 steel, 40Kh steel, 30KhGSNA steel

ABSTRACT: Gear-and-lever chip-breaking mechanisms for lathes are described. The breaking method used here was described earlier by L. K. Zotova, A. S. Shashkin, and A. S. Gel'fond (Universal'nyye struzhkolomatel'nyye mekhanizmy dlya tokarnykh stankov. II., GOSINTI, No. 21-64-763/8, 1964). The mechanisms provide diverse and controllable rules for cutting-tool feed (see Fig. 1). Control tests were performed with T5K10 hard alloy and with 1Kh18N9T, 2Kh13, 40Kh, and 30KhGSNA steels. It was found that intermittent cutting ensured reliable and stable chip breaking over a fairly wide range of machinable materials, cutting conditions, and tool geometry. High-speed turning with the use of the described mechanisms provides safer operating conditions, since the chips are obtained in the form of short, coiled spirals. The mechanism permits the lathe to be switched from intermittent to continuous cutting. Application

Card 1/2

ACC NR: AP7003850

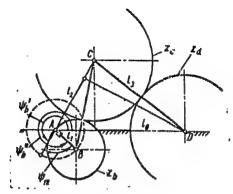


Fig. 1

of these mechanisms does not interfere with the general-purpose operation of a lathe when properly designed. Orig. art. has: 2 formulas, 2 diagrams, and 3 graphs.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 005

Card 2/2

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVA, L. K.

"Investigation fo the Process of the Curling of Shavings in the Presence of High-Speed Cutting." Him Heavy Machine Building USSR, Central Sci Hes Inst of Technology and Machine Building (TsHITMsh), Moscow 1953 (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

"APPROVED FOR RELEASE: Thursday, September 26, 2002

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CIA-RDP86-00513R00206510007-5

SOV/124-57-4-4752

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 126 (USSR)

Zotova, L. K. (Band Lech Sci) AUTHOR:

On the Process of Curling of Metal Shavings (O profsesse struzh TITLE:

kozavivaniya)

PERIODICAL: Sb. statey. Ural'skly politekhn, in t, 1956, Nr 63, pp 63-69

ABSTRACT: The problem of controlled chipping is discussed as one of the aspects brought into foreground by the adoption of high-speed metal-cutting methods. Hot, sharp-edged sharings present a hazard for the operator and are unwieldy in transportation; it is, the refore, desirable that safe, curled shavings be produced in the course of machining. Certain considerations are presented permitting rational selection and design of attachments to induce the curling of shavings. On the strength of his own experimental data, the author concludes that a reduction in the width of contact between the cutting tool and the shaving results in a reduction of the curvature of the latter. See also RZhMekh, 1957, Nr 4, abstract 4743.

G. S. Shapiro

Card 1/1

ZOTOVAL L.M., kand.ekonom.nauk

Estimating the operations of furniture enterprises. Der.prom.

(MIRA 15:4)

1. Nauchno-issledovatel skiy ekonomicheskiy institut Gosekonomsoveta SSSR. (Furniture industry)

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USSR / General and Special Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11706

Author : Zotova L. M.

Inst : Not given
Title : The Effectiveness of the Use of Aviation in the

Control of Pests.

Orig Pub: Sakharna a svekla, 1957, No 2, 37-39.

Abstract: No abstract.

Card 1/1

13

YAGUFOL'SKAYA, L.N.; GRABIN, V.F.; ZOTOVA, L.M.

Effect of isothermal holding at 70° c on the corrosion resistance of welded joints in the AMg6 alloy. Avtom. svar. 17 no.8:31-35 Ag '64.

Catture xii

1. Institut elektrosvarki imeni Patona AN UkrSSR.

CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5" JH/JD/WW/JG/NB APPROVED FOR RELEASE: Thursday, September 26, 2002 EWT(m)/EWP(t)/ETI IJP(c) SOURCE CODE: UR/0413/66/000/011/0128/0128 L 35871-66 ACC NR: AP6021486 INVENTOR: Rabkin, D. M.; Yagupol'skaya, L. N.; Langer, N. A.; Dovbishchenko, I. V.; Nikitina, A. V.; Zotova, L. M.; Martynova, N. A.; Yelagin, V. I.; Ishchenko, A. Ya.; Bondar', V. ORG: none Class 49, No. 182487 TITLE: Filler-wire for argon-shielded arc welding of aluminum. [announced by the Electric Welding Institute im. Ye. Q. Paton (Institut elektrosvarki) SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 128 TOPIC TAGS: welding, aluminum watching, arc welding, argon, shduthind: are welding, welding wire, aluminum wire, chronium miterining wire, nisumula collection of the control of the ABSTRACT: This Author Certificate introduces a filler-wire for argon-shielded arc welding of aluminum. To improve the weld corrosion resistance, the wire contains 0.8-1.2% chromium and 0.7-1.2% sirconium. SUB CODE: 11, 13/ SUBM DATE: 25Dec53/ ATD PRESS:503/ 621.751.753.93.042 Cord 1/1 ///-

Failur I

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5

ZOTOVA, L.P.; YASTRZHEMBSKIY, A.L.

Floating valves of flush tanks and their principal technical characteristics. Sbor. trud. NIIST no.11:133-145 '62 (NIRA 18:1)

ZO — "APPROVED FOR BELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

AKOVBYAN, A.A., professor; ZOTOVA, M.E.; FILATOVA, A.A.; TIKHONOV, V.F.

Exmonovocillin in the treatment of syphilis. Vest. ven i derm. no.4: 46-48 J1-Ag '54. (MIRA 7:8)

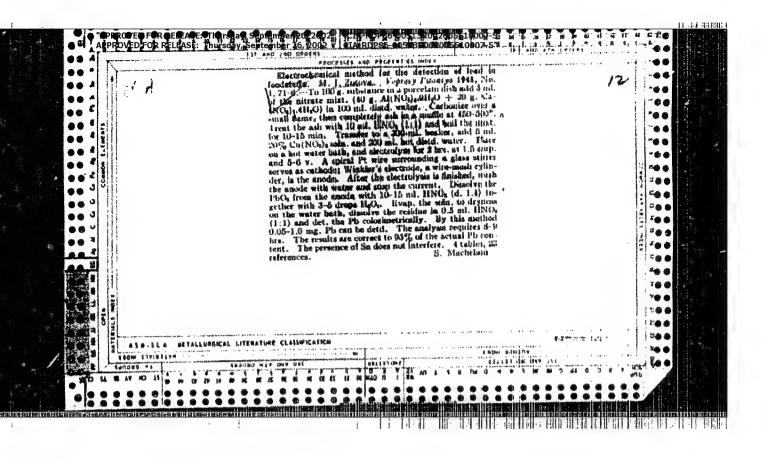
1. Is kafedry koshnykh i venericheskikh bolezney (zav. prof. A.A. Akovbyan) Tashkentskogo meditsinskogo instituta imeni V.M.Molotova. (PENICILLIN, deratives.

*procesine penicillin, there of syphilis, with ekwolin)

(SYPHILIS, therapy,

*penicillin, procaine, with ekmolin) (ANTIBIOTICS, therapeutic use,

*ekmolin in syphilis, with procaine penicillin)



J=3

USSR/Soil Cultivation. Mineral Fertilizers.

Abs Jour: Ref Zmr-Biologiya, No 1, 1958, 1256.

Author : Kodanev, I., Zotova, M.

: Gor'kovskiy Combination Station.

: Experiments of the Gor'kovakiy Combination Station. Inst Title

Orig Pub: Udobreniye i urozhay, 1956, No 8, 56-57.

Abstract: It has been established that nitrogen fertilizers have a favorable effect on cover crop (barley) yields and a negative one on the clover-timothy combination. When applied. to a lucerne-grass mixture, the grass harvest increases; but the reaction of the lucerne upon nitrogen fertilizers is less favorable, as is the growth of the lucerne in combination with the grass element. Phosphorous-potassium fertilization of the cover crop increased the yield of clover

: 1/2 Card

-26-

Fertilizers.

ADS Jour: Ref Zhur-Biologiya, No 1, 1958, 1256.

J-3

and lucerne, especially in the first year of its application. These grasses are recommended for use in field rotations in regions where grass can be sown successfully.

Card : 2/2

-27-

ZOTOVA, M.E.

USSR / Pharmacology, Tomicology, Chemotherapeutic Agents.

U-7

ZOTOVA, M. G. Cand Biol Sci -- "Curative effect of unithicle in radiation sickness caused by introduction of polonium." Mos, 1961 (Acad Med Sci USSR). (KL, 4-61, 192)

the latteres

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 5/205/63/003/001/005/029 F025/8105 Zotova, h. s. AUTHOR. water-soluble adenosinetriphosphatase in the organs of TITLE: rats irradiated with polonium regionical: Radiobiologiya, v.S. no.1, 1963, 21-23 , no siendsinetrionosphatase actavity during acute BICKDOVS WAS BUDGLED. Acute regulation suchness was in section of rate by the submatamenum injection of polymium in a The I was mourges, and the abendanetriphosphatase activity of the internal organo was latermined in animals sulled at intervals и ст. така alter to вордого д 500 яд aample of each organ was 2011 - The twater. The sumpons lon was ्रत के स्वाधिक स्वाधिक अस्ति। ्राप्त कर कर कर कर कर के प्रतिकार के स्थापन कर के स्थापन क स्थापन कर के के किस के स्थापन activity of the $m_{B_{0}}$ expressed as the properties an eigenvalue of the $m_{B_{0}}$ prosperse Albersted per les ma et fresh timbue. In destroi teterminations with no man raise the mean autivity of the kidney was 3%, the liver 72, spacer op and braze jo. In the experimental rate a fall of up to DOS in these values set in Suring the firet

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Water-soluble adenosanetriphosphatase. $\frac{$/205/65/003/001/005/029}{$0.20/8105}$

in a after exposure to radiation, after which the activities rose but did not return to normal levels. These results agree with those previously obtained by the author or the scale decrease of the matter of Seegroups carana possible induced radiation sickness. The fact that the engyse activity is smaller with maternal income and a could be explained by the callation Assays in the first case and ispatticias in the see the the forest on of irreduction a single might dose Alta. 1.70 of thort paration in the first case and cometant inter one in the sucond... There are d tables.

5 April 20, 1702

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5

ZOTOVA, M.G.

Water-soluble ademosinetriphosphatase in the organs of rats affected by polonium. Radiobiologiia 3 no.1:21-23 '63.

(ADENOSINETRIPHOSPHATASE) (POLONIUM—PHYSIOLOGICAL RFFECT)

ing in the second of the Second of the United Second Second Second Second Second Second Second Second Second S

"A Description of the Medicinal Effect of Unithicle in Polentum Injury."

report presented at the 146th meeting of the Pharmacology and Toxicology Section of the Moscow Society of Physiologists, Biochemists and Pharmacologists, 25 Mar. 1958.

II Moscow Medical Institute

(Farmakologiia i Toksikologiia, 21, no 6, Nov-Dec 58, p. 617)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVA, M.G. (Moskva)

Effect of unithiol in the secretion of polonium (Po²¹⁰) from the body. Med.rad. 3 no.6:67-68 N-D '58. (MIRA 12:1) (POLONIUM IN THE BODY) (PROPARESULFONIC ACID)

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APPROVED FOR RELEASE: Thursday, September 26, 2002 ... CIA-RDP86-00513R00206551000715"

L 1937-66 ENT(1)/ENT(m)/ENA(b)-2 RO ACCESSION NR: AP5024175

UR/0290/45/000/002/0111/0119 633.88.030615.32

AUTHOR: Zotova, M. I.; Krylov, G. V.; Saratikov, A. S. 65

TITLE: Golden root - a new atimulant and adaptogenic drug

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya bilologo-meditsinskiki

TOPIC TAGS: plant growth, pharmacognosy, experimental spinal, aproved system drug. drug effect, bodily fatigue, psychophysiology. Eleutherococcus, Eleutherococ

ABSTRACT: Rhodiola roses (golden root) is described in datail and its pharmacological effects are compared with those of Eleutherococcus. Literature data on
the effects of Rhodiola roses are contradictory, largely because of different
drying and extraction methods. In the present study, Rhodiola roses roots gathered
in the Altai region were dried at 60° and extracted by a supercolation method using
the following as solvents: 0.5% aqueous chloroform, 20° athyl alcohol, 40° athyl
by changes in the lengths of time white mich were able to cling to a vertical rod
before and after administration of the extract. Pladings show that all the root
extracts reduce body fatigue, but to different degrees. the 40° altahal antract by

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L 1937-66

ACCESSION NR: APS024175

350%, the 20° alcohol extract by 99%, the aqueous chloroform extract by 95%, and the 70° alcohol extract by 51%. The antihypnotic effect of Rhodiola roses extract was investigated in white mice by injecting it subcutaneously 1 hr before administering medinal (0.15 mg/g dose). Rhodiola roses extract did not change the time elapsed before the animal fell asleep, but did meduce the duration of sleep considerably. The sleep period was reduced by 64 min by the 40° alcohol extract, and by 21 to 28 min by the other extracts. In testing the adaptogenic effects of Rhodiola roses, the extract was found comparable to Eleutherotoccus and other adaptogens in inhibiting the development of centain pathological hematological reactions. Considering the similarity of the stimulant and adaptogenic effects of Rhodiola roses and Eleutherococcus, and the abundance of Fhodiola roses in the USSR (Altais, Urals, Intutsk, Zabaykal, Primorskiy Kray, Kamchatka, and Chukhotsk Peninsula), Rhodiola roses liquid extract is recommended for widespread clinical testing. Orig. art. has: 5 figures and 3 tables. [(06)]

ASSOCIATION: Towakiy maditainakiy inacitut (Towak Madical Institute), Biologichesty

ATT PURE SET

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-ROPSG-00513R002065510007-5*

KODAREV, I.M.; ZOTOVA, M.L.

Effect of cultivation methods on barlay productivity and brewing qualities in Gorkiy Province. Trudy VNIIPP no.5: 159-176 '55,

(Gorkiy Province--Barley)

(HLRA 9:1)

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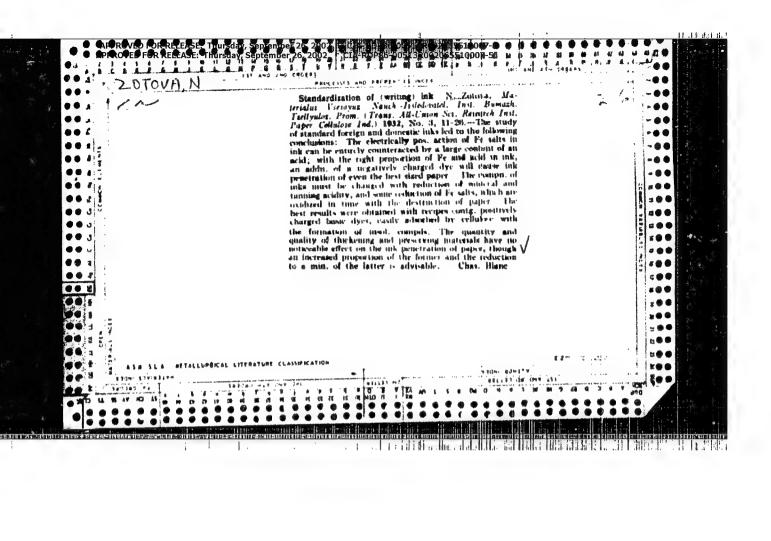
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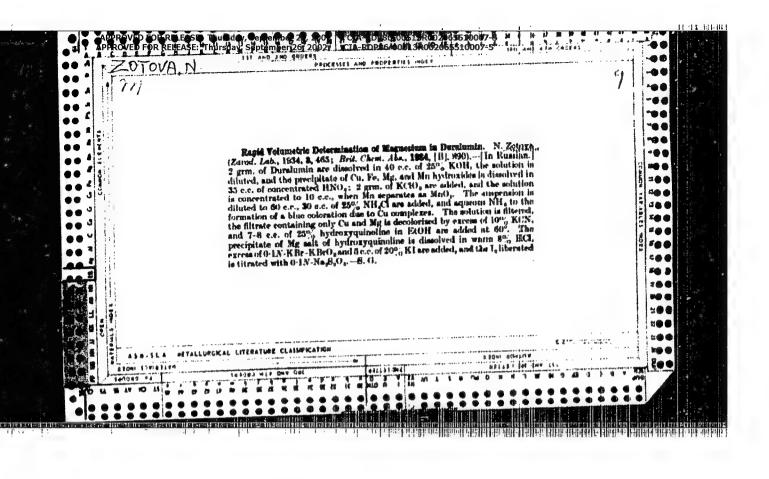
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CIA-RDP86-00513R002065510007-5

Devolopment of summania's emport resources and import requirements, Vensh. torg. 41 nc. 2:35-44, 151. (NIXA 14:2)

(husania--- oreign sconomic relations)





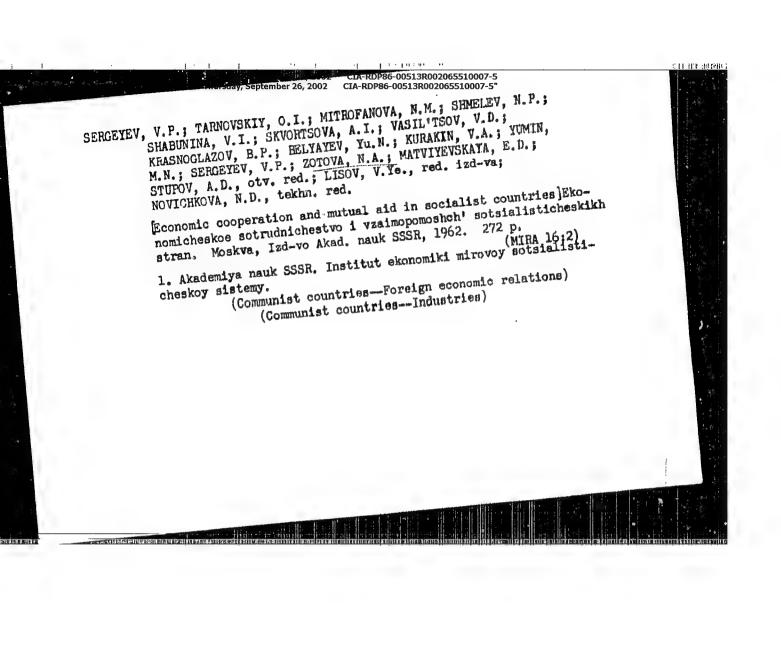
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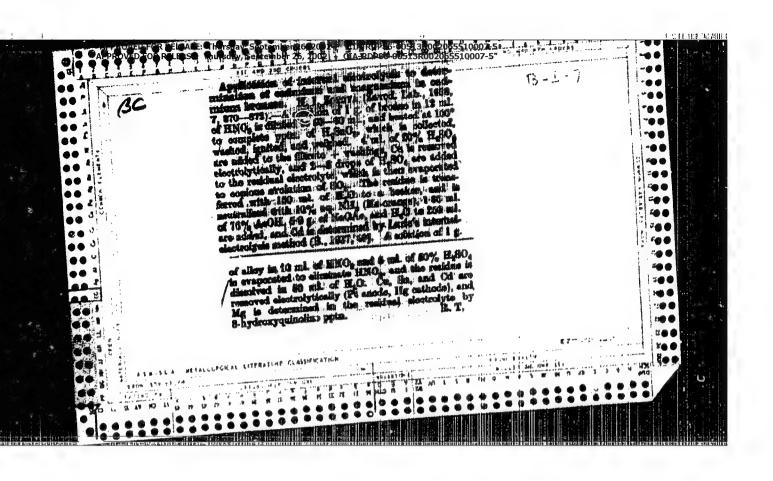
ZOTOVA, N. A.

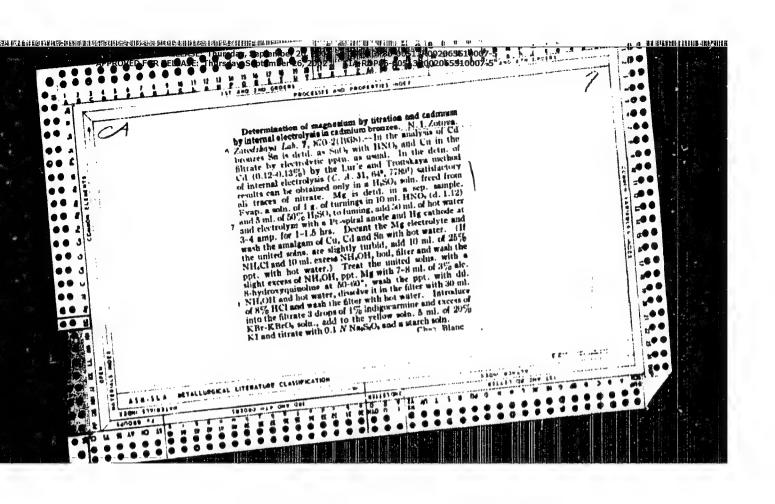
Dissertation defended for the degree of Candidate of Economic Sciences at the Institute of Economics

"Foreign Trade of the Aumanian People's Republic with the Soviet Union and Its Role in Building the Socialist Economy of Aumania."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145







PRIVED, M.G.; AMETA, M. L.

าร์ว พระบังนะ กระจากละ เกษตระทยยน กระจะกระจากล มากจะระบบของกับมายยนกลากกากการการการกา

Effect of external and internal factors on the formation of collateral pathways of the lymph flow. Arkhiv. mach. plate ! (P.TBA 15:6) embr. 43 no.10:102-108 0:62.

MERHENNENNISA

1. Kafadra normal'noy anatomit (zav. - prof. M.G. Privas) l-go leningradakogo meditainakogo instituta imeni akademika favlova.

ZOTOVA, N.I.

THE THE DESCRIPTION OF THE PROPERTY OF THE PRO

Effect of the disturbance of the integrity of the optic thelemus on the arterial collateral blood supply to the stomach. Arkhanat., gist. i embr. 49 no.8:45-50 Ag '65. (MIRA 18:9)

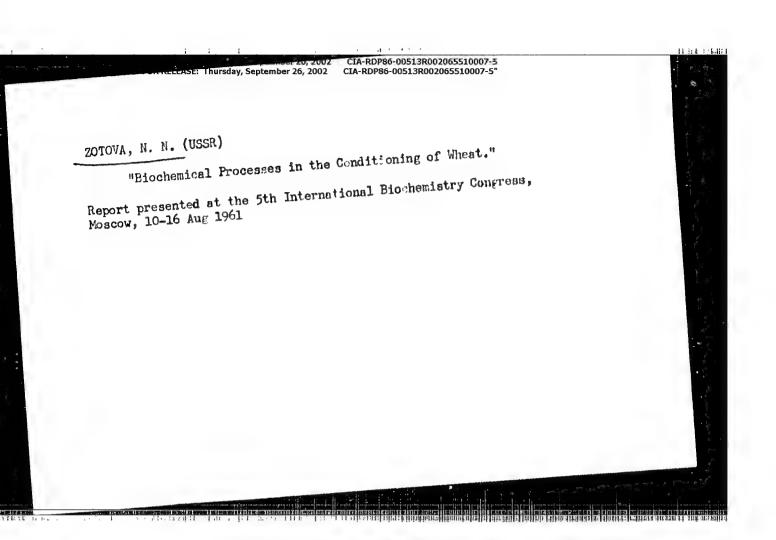
1. Kafedra normal*noy anatomii (zav. sasluchennyy deyatel* nauki prof. M.G. Prives) 1-go Leningradakogo meditsinskogo instituta imoni akademika I.P. Pavlova.

Bable, Ye.P.; KUZ'MENKUV, A.A., ZOTOVA, N.L.,

Beron fluoride as catalyst in reactions promoting the removal of sulfur from coke chemical benzenes. Zhur.prikl.khim. 38 no.611250—
(MIRA 18:10)
1256 Je 165.

1. Done tekoye otdaleniye Instituts organichaskoy khimil AN UkrSSr.

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CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5 ZOTOVA, N.N.; KRETOVICH, V.L.; LYHBIMOVA, H V. Effect of wheat moistening on the glutamic decarboxylase activity. Pokl. AN SSSR 160 no.5:1194-1196 F 165. (MIEA 19:2) 1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlen-nosti. 2. Chlen-korrespondent AN SSSR (for Kretovica). con engantings of resultance conference burnings in the

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R0020655100W/5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5" <u>t de l'ingrille de Marce il plesid d'Assamb Abadha i Ambre anna molte Amagna de matric arrage na chief</u>

201 DESTRUCTION RECORDED TO A STATE OF THE OF THE OF THE STATE OF THE OF CIA-RDP86-00513R002065510007-5 L 3631-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) ACCESSION NR: APSO24049 IJF(c)

AUTHOR: Zotora, N. V.; Nasledov, D. N.; Sreseli, O. M. UR/0057/65/035/b09/1672/1674

TITLE: n-type gallium arsenide Hall transducers

SOURCE: Zhurnal teknicheskoy fiziki, v. 35, no. 9, 1965, 1672-1674

TOPIC TAGS: Hall effect, Hall constant, electron mobility, gallium arsenide, magnetic field measurement, high temperature instrument

ABSTRACT: The authors have constructed and tested Hall transducers of highly purified GaAs. The preparation, purification, and deping (if any) of the materials is not discussed. Materials were obtained having Hall constants from 100 to over not discussed. Materials were obtained having half companies from 3500 cm /C and electron mobilities from 3500 to 5000 cm /V sec. Materials with electron concentrations above 1017 cm were unsuitable because of their low Hall constants. The greatest difficulty in fabricating the transducers was encountered in securing adequate metallic contacts. The contacts were of tim and were fused to the semiconductor in vacuum at 400-450 °C for 5 min. These contacts could be used at temperatures up to 210 °C, but the contact resistance was some 30% of the total resistance of the instrument. The eight transducers tested varied slightly in size, a typical one measuring 8.6 x 2.5 x 0.23 mm. For each transducer the current Twoltage characteristic was determined, the Hall emf was measured by an open-cirAPPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5

L 3631-66

ACCESSION NR: AP5024049

cuit compensation method as a function of magnetic field strength for a fixed value of the current (ranging from 50 to 300 mA), and the temperature coefficient of the Hall emf was measured at a constant magnetic field strength of 10 900 Cm at temperatures from 30 to 210 °C. The temperature coefficient is given for only one of the transducers; this transducer had a sensitivity of h x 10 y/0m and a temperature coefficient of 0.029 % per degree. The principal advantage of the GaAs Hall transducers is that they combine a low temperature coefficient owns a wide temperature range with a reasonable sensitivity. Development of better metallic contacts will make it possible to increase the temperature range over which the instrument can be used and also to increase the current and thereby the sensitivity. Oxig. art. has: 3 formulas, 2 figures, and 2 tables.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A.F. Toffe AN SSSN, Leningrad (Physico-technical Iustitute, AN SSSR)

SUBMITTED: 21Jan65

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5" BUT (1) FRIGHT / DIP (a) / BUS/RED (b) -2 AFFTC / ASD/ESD-3/ 1. Sain 18 4 1 2 2 · 15.66 STUTCU: Radistekhnika i elektronika, v. 8, no. s. 1903, 1602-160e first TAGS: indium arsentee pen junction, pen junction, tennel pen junction, indium arsanide 1.31-40Tt Properties of diffuses ona junctions made from Inds are rescussed. Sing emoryans, nerves indian acomple with a Hall conthe street of the sector and a contribution of propressingle of who were the control of the control material. Fillowing The services and end send the send been selected as a service of the service of t three parties with a patter of quadratic in a firster more, where the life fixing process that place at Tox - Saturated vapor pressure was fixed by the lowest temperature of the system (i.e., 9000). Miter iti. 20. 20, the armag of the regular of advanture in the political was between a x-lar and t-y-1. The company the principles of the princ Card 1/2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-OSSISROD-Dessign 1002-5
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Catogory

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of Infections Prosess

Abs. Jour. : Ref Zhur-Eiol, 1959, No 4, 18179

Author Institut.

Title

: Zotova, N. Yo. : Uzbekistan Scientific Research Dermstovenereo-: Antitoxic Liver Function in Patients with

Syphilis Treated According to the Flans for

1949-1951

Orig Pub.

: 3b. tr. Uzbekist. n.-1. kozhno-veneral. in-te,

1957, 6, 257-261

Abstract

: The antitoxic function of the liver (AFL) was studied in 101 patients with syphilis. The quanof hippuric acid excreted in the urine, in the amount equivalent to 3.7 5. of sodium benzoate, was taken as 100%; the range between 70% and 100% was considered normal. Before treatment, the AFL of 51 out of 101 matients was normal or close to normal (100%-50%); in 24

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1/2

.CIA-RDP86-00513R002065510007-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 L 04785-67 EWT(m)/EWP(t./ET1

TJP(c)

ACC NR: AP6024467

SOURCE CODE: UR/0181/66/008/007/2074/2076

AUTHOR: Zotova, N. V.; Lebedev, A. A.; Nasledov, D. N.

38

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSR)

TITLE: (Diffusion of cadmium in indium arsenide

SOURCE: Fizika tverdogo tela, v. 8, no. 7, 1966, 2074-2076

TOPIC TAGS: cadmium, physical diffusion, indium compound, arsenide, pn junction, semiconductor impurity

ABSTRACT: In view of the limited amount of systematic data concerning the diffusion of impurities in indium arsenide, the authors present some new results on the diffusion of Cd in InAs of n-type. The donor content was $4 \times 10^{16} - 6 \times 10^{19}$ cm⁻³. The tests were made on single-crystal indium arsenide, both pure and doped with tellurium and selenium. The diffusion was in saturated cadmium vapor at $750 - 780 \mathrm{C}$ and $10^{-6} \mathrm{mm}$ Hg. The depth of the p-n junction was determined by the removal of layer method and determination of the sign of the charge from the thermal emf. The results show that the diffusion of Cd in InAs depends on the initial concentration of the donor impurity but not on the nature of the donor; the diffusion coefficient decreases with increasing impurity concentration in the initial substance. The decrease in the diffusion coefficient in strongly doped material is sho-n to be connected with the formation of donoracceptor pairs which diffuse more slowly than free acceptors. Orig. art. has: 2

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R00206570007-5 CIA-RDP86-00513R0020657

ZOTOVA, N.I.

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Affect of disruption of unity of the premotor zone on collateral circulation of the stomach. Biul. eksp. biol. i med. 40 no.12: 55-59 D *55 (HIRA 9:3)

1. Is kafedry normal'noy anatomii (mav.-prof. M.G. Prives) i Leningradskogo meditainskogo instituta imeni I.P. Pavlova (dir. -dotsent A.I. Ivanov)

(CEREBRAL CORTEX, physiology,
eff. of exper. lesions on collateral circ. of stomach
in cats)
(STOMACH, blood supply,

eff. of exper. lesions of cerebral cortex on collateral circ. in cats)

A F R 11 12 200 FL 10 2 1102 200 200 10 130

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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ZOTOVA, N.N.; KRETOVICH, V.L.

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CIA-RDP86-00513R002065510007-5

Biochemistry of wheat conditioning. Izv. AN SSSR. Ser. biol. 26 no.5: 708-716 S-0 '61. (MIA 14:9)

1. Technological Institute of Food Industry and Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow. (GRAIN HANDLING)

SER.

24 (6) 24.7600

Zotova, N. V., Nasledov, D. N.

507/181-1-11-8/27

66273

TITLE:

AUTHORS:

Hall Generators From Indium Arsenide for the Measurement of the Magnetic Field Strength

PERIODICAL:

Fizika tverdogo tela, 1959, Vol 1, Nr 11, pp 1690-1694 (USSR)

ABSTRACT:

From the stoichiometrically composed source materials the indium arsenide is prepared by vacuum melting at 1000°C. The melt was subjected to a zone purification which made possible the examination of the final monocrystalline and polycrystalline samples of the n-type, having an impurity concentration of 1.6 . 10 to 10 cm³, as to their most important properties. The temperature dependence of the electrical conductivity is shown in figure 1 for 3 different values of n and a temperature range -196°C - +400°C. The dependence of the Hall constant R on temperature is illustrated in figures 2 and 3. At an impurity concentration of 2 . 10 7 cm³ R varies by 0.02% per 1°C and at a concentration of 3 . 10 6 cm³ only by 0.08%. It was established that R does not depend on H up to 21000 Oe. Primary elements were

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Hall Generators From Indium Arsenide for the Measurement of the Magnetic Field Strength

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prepared from the samples with the properties described. They consist of platelets (length = 8-5 mm, width 4-3 mm, thickness 0.2-0.1 mm), with 4 or 5 electrodes: 2 current and 2 or 3 Hall electrodes. The platelets are glued on mica and are sometimes placed into small metallic boxes, for better cooling. The contacts are prepared with special care so that only ohmic contacts can occur. The following characteristic properties of the primary elements are measured by the usual method: a) Hall EMF [6] different samples) versus field strength in the temperature range +20 = +55°C (Fig 8), b) Hall EMF versus control current (Fig 9). In a sample of n = 3 10 17/cm the optimum current density is j = 90a/cm², in a sample of n = 2 · 10 16/cm³, however, it is 60a/cm² · c) the sensitivity of the primary element is measured for 5 different samples (see Table). d) The influence of the shape of the sample on the EMF occurring in the Hall electrode is investigated (Fig 10). e) The accuracy of the H measurements was

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Hall Generators From Indium Arsenide for the Measurement of the Magnetic Field Strength

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0.8, 0.6 and 0.5% for 300, 1000, and 3000 Oe, respectively. After a continuous 7-hour operation the values of the primary elements can all be reproduced with an accuracy of 0.5%. There are 10 figures, 1 table, and 9 references.

ASSOCIATION:

Fiziko-tekhnicheskiy institut AN SSSR, Leningrad (Physico-technical Institute of the AS USSR, Leningrad)

SUBMITTED:

March 4, 1959

4

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YESINA, N.P.: ZOTOVA, N.V.; NASLEDOV, D.N.

P-n junctions in indium arsenide. Radiotekh. i elektron. 8 no.9:1602-1606 S '63. (MIRA 16:9) (Semiconductors) (Transistors) (Indium arsenides)

9,4300 (and 1035,1143, 1150)

S/105/61/000/003/001/001 B116/B206

AUTHORS:

Nasledov, D. N. and Zotova, N. V.

TITLE:

Instrument for measuring direct currents of up to 40 ku

PERIODICAL:

Elektrichestvo, no. 3, 1961, 70-73

TEXT: This is the description of an instrument similar to those developed by the Siemens-Schuckert Plants in the Federal German Republic (Refs. 2,3). It was developed by the authors for the purpose of measuring direct currents of up to 40 ka with an error of measurement of about 0.7%. The instrument is based on measuring the magnetic-field strength, the field being produced by the direct current by means of Hall generators developed by the authors. These Hall generators are made from indium arsenide (semiconductor) (Ref. 1). The new instrument differs from those used in the USSR for measuring direct currents by the following facts: it can easily be placed on a conductor rail and measure the current in any section of the rail; the instrument has a millivoltmeter of the class of accuracy of 0.5 and a linear scale in the entire measuring range; the instrument indications do not depend on outside effects of Card 1/7

Instrument for measuring direct ...

S/105/61/000/003/001/001 BT16/B206

foreign magnetic fields, foreign steel masses etc; the instrument has a sufficiently low error of measurement; the indications do not depend on the temperature up to +50°C (the lower limit is unrestricted); the measuring process and calibration of the instrument are very simple; the Hall generators used in the instrument are exchangeable and reliable; the instrument is not sensitive to overloads and consumes a maximum of the instrument is not sensitive to overloads and consumes a maximum of 1.5 w. The basic circuit diagram for connecting the two Hall generators is shown in Fig. 1. The rails conducting the direct current to be measured are gripped by the steel yoke consisting of two U-shaped parts. The Hall generators are placed in the two air gaps formed between these parts. It is shown that the sum of the magnetic-field strengths H₁ and

 H_2 in the two gaps of the width l_1 and l_2 respectively will only be proportional to the measured current I_* if H_{Fe} l_{Fe} l_{Fe} is the magnetic-field strength along the path l_{Fe} in the steel. This condition is only fulfilled in a material with steep magnetization curve and narrow hysteresis loop. Such a material is cold rolled silicon sheet steel

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Instrument for measuring direct ...

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XBN (KhVP), which shows a high saturation induction, making it possible to obtain great magnetic-field strengths in the air gaps. The neglect of H in comparison to I is the only fault of this direct-current measuring method. The instrument is described in short with the aid of Fig. 2. The yoke is made from KhVP steel and consists of thin lamellas, in order to prevent heating owing to eddy currents. Between the two yoke parts there are very exactly machined calibrated copper cups. The yoke dimensions are: 114 x 87 x 30 cm. The surface of the recess for the rail is 37 \times 34 cm. The air gap is 3 cm. The weight of the yoke is 1600 kg. The Hall generators were made from indium arsenide and showed a sensitivity of about 100 µv/0. It was possible to reduce the potential drop at the Hall contacts to from 0.05 to 0.2 mv for H = 0. The control panel consists of two indicating instruments of precision class 0.5 (a milliammeter for measuring the control currents of both transmitters and a millivoltmeter calibrated in kiloampere) and a circuit for separate transmitter feeding, compensating the foreign emf and measuring the Hall emf. Each Hall generator has its own, accurately selected load resistance, since not only the Hall emf, but also the linearity of the scale depends on it.

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Provision is made for a recording device to be added on the panel.

Fig. 3 shows the basic circuit diagram of the panel. In this circuit the microammeter with the resistor connected in series serves as recording arparatus. The instrument scale is strictly linear for measurements of up to 40 ka and remains so up to 50 ka, if the air gap is increased to 4 cm. The great weight of the instrument is mentioned as a drawback. Experiments to reduce it have led to a reduction of the measuring accuracy. At present the authors are developing a direct current measuring instrument for currents of up to 100 ka, based on the same principal described here. There are 6 figures and 3 references: 1 Soviet-bloc.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Physicotechnical

Institute of the AS USSR)

SUBMITTED:

December 8, 1956

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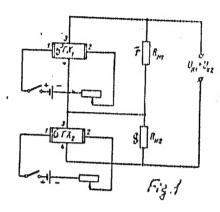
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Instrument for measuring direct ...

5/105/61/000/003/001/001 B116/B205

Legend to Fig. 1:
Basic circuit diagram for connecting the Hall generators.
1) and 2) current contacts of the Hall generators, 3) and 4) Hall contacts, 5) and 6) Hall generators, 7) and 8) their corresponding load resistances ~ 10 0hm.

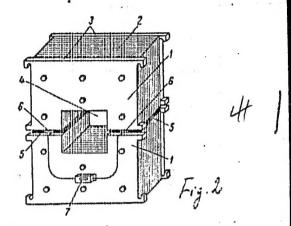


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Instrument for measuring direct ... 5/105/61/000/003/001/001 B116/B206

Legend to Fig. 2: General view of the measuring instrument for high direct currents. 1) U-shaped parts of the magnetic conductor, 2) steel yoke, 3) bracket plates from duralumin, 4) recess for the conductor rail, 5) calibrated copper cups, 6) Hall generators, 7) wedge connecting the Hall generators with the control panel.



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Instrument for measuring direct.

Legend to Fig. 3: Basic circuit diagram of the control panel.

1) and 2) accumulators feeding the Hall generators; R₁=R₂ ≈ 60 Ohm variable resistances permitting the generators to be supplied with the necessary control current. 3) and 4) generators. r₁ = 100 Ohm, r₂ = 3 Ohm, r₃ = 100 Ohm resistance for compensating the foreign emf.

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